

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-022036**Date Inspected:** 22-Mar-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Zhou Zhong Hai**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG COMPONENT**Summary of Items Observed:**

On this day Caltrans OSM Quality Assurance (QA) Inspector Subhasis Bera was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhen Hua Port Machinery Company (ZPMC) at Chang Xing Island in Shanghai, China. QA Inspector observed and/or found the following:

In process Inspection

Trial Assembly

This QA Inspector observed the following work in progress:

SMAW in the 4G position for OBG segment 13AW, welding of weld No. SEG3013A-012. The Welder is identified as 069683. ZPMC Quality Control is identified as Mr. Shen Jian Bo. The welding variables recorded by QC personnel appeared to comply with WPS-B-P-2214-B-U2-FCM-1. The welding variables were recorded at, Amperage 152, volts 24.3. The In-process SMAW appears to be progressing in compliance with approved contract documents.

SMAW in the 4G position for OBG segment 13AW, welding of weld No. SEG3013A-014. The Welder is identified as 067572. ZPMC Quality Control is identified as Mr. Shen Jian Bo. The welding variables recorded by QC personnel appeared to comply with WPS-B-P-2214-B-U2-FCM-1. The welding variables were recorded at, Amperage 159, volts 24.7. The In-process SMAW appears to be progressing in compliance with approved contract documents.

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SMAW in the 4G position for OBG segment 13AW, welding of weld No. SEG3013AD-016. The Welder is identified as 067572. ZPMC Quality Control is identified as Mr. Shen Jian Bo. The welding variables recorded by QC personnel appeared to comply with WPS-B-P-2214-B-U2-FCM-1. The welding variables were recorded at, Amperage 142, volts 24.2. The In-process SMAW appears to be progressing in compliance with approved contract documents.

Ultrasonic Testing (A,B,C and D-Scan)

This QA Inspector performed Ultrasonic testing (UT) verification of the area previously tested and accepted by ABF Quality control personnel. This QA inspector generated a (UT) report for this date. The member is identified as corner joint joining between side Plate to edge Plate for OBG segment 12AW at panel point PP111 on counter weight side. The result was recorded onto a data sheet according to rejection criteria of "D" Scan procedure 001 rev.1 that Caltrans QA and ABF QA have jointly filled out on this date. The QA inspector found one rejectable indication at scanned area.

The Weld Designation is as follows

CA3006-005

This QA Inspector performed Ultrasonic testing (UT) verification of the area previously tested and accepted by ABF Quality control personnel. This QA inspector generated a (UT) report for this date. The member is identified as corner joint joining between side Plate to edge Plate for OBG segment 12AW at panel point PP111.5 on counter weight side. The result was recorded onto a data sheet according to rejection criteria of "D" Scan procedure 001 rev.1 that Caltrans QA and ABF QA have jointly filled out on this date. The QA inspector found no rejectable indication at scanned area.

The Weld Designation is as follows

CA3012-001

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



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Summary of Conversations:

No relevant conversations

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-0042-2372, who represents the Office of Structural Materials for your project.

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| Inspected By: | Bera,Subhasis | Quality Assurance Inspector |
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| Reviewed By: | Dsouza,Christopher | QA Reviewer |
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